NOAA
R 336

PARTS LIST — QUANTITIES FOR ONE VESSEL

PC.NO.	QTY	DESCRIPTION	UNIT WEIGHT	MATERIAL	SPECIFICATIONS	MFR PART NO.	REMARKS

GENERAL NOTES

1. ARABIC NUMERALS REPRESENT NAVIGATIONAL DRAFTS AND HEIGHT ABOVE BOTTOM OF FLAT KEEL AMIDSHIPS EXTENDED.

2. DIMENSIONS
   (A) LONGITUDINAL LOCATIONS OF ALL ITEMS ARE GIVEN FROM THE STERN REFERENCE POINT (AFTER END OF MAIN DECK AT CENTERLINE.)
   (B) HEIGHTS OF ALL ITEMS ARE GIVEN FROM THE BOTTOM OF THE KEEL AMIDSHIPS EXTENDED.
   (C) LONGITUDINAL LOCATIONS AND HEIGHTS OF SIDE BLOCKS ARE TAKEN TO THE AFTER SIDE OF BLOCKS.

3. COMPLETE PAINTING OF HULL
   (A) IN ORDER TO CLEAN AND PAINT THE ENTIRE BOTTOM OF THE VESSEL IN THREE SUCCESSIVE DOCKINGS THE FOLLOWING POSITIONS OF THE VESSEL ARE NECESSARY:
   (1) POSITION NO. 1
   AFTER END OF MAIN DECK (POINT OF REFERENCE) IS PLACED 55'–9" AFT OF AFTER SIDE OF NO.1 SIDE BLOCK.
   (2) POSITION NO. 2
   AFTER END OF MAIN DECK (POINT OF REFERENCE) IS PLACED 57'–9" AFT OF AFTER SIDE OF NO.1 SIDE BLOCK.
   (3) POSITION NO. 3
   AFTER END OF MAIN DECK (POINT OF REFERENCE) IS PLACED 53'–9" AFT OF AFTER SIDE OF NO.1 SIDE BLOCK.
   (B) REPEAT CYCLE OF POSITIONS. ASCERTAIN FROM VESSEL THE POSITION OF VESSEL AT ITS LAST DOCKING.

4. DIMENSIONS OF OFFSET TABLES ARE GIVEN IN FEET–INCHES–SIXTEENTHS OF AN INCH.

5. KEEL BLOCKS SHALL BE CONFIGURED TO CLEAR DRAIN PLUGS.

6. BLOCKING
   (A) THE BLOCKING SHOWN ON THIS PLAN IS THAT REQUIRED FOR BLOCKING UNDER ORDINARY UNDAMAGED CONDITIONS FOR 8'–0", 12'–0" OR 16'–0" SPACED BEARERS IN DRYDOCK.
   (B) KEEL BLOCKS
   (1) KEEL BLOCKS SHALL BE ARRANGED IN PIERS CONSISTING OF THREE 14"X14" HARD WOOD TIMBERS MOUNTED WITH 2 INCH MIN THICKNESS SOFTWOOD CAP BLOCKS. LONGITUDINAL SPACING TO BE 6'–0" CENTER TO CENTER WITH 30 INCH CLEAR SPAN BETWEEN PIERS.
   (2) NO BLOCKS OR SHORES ARE REQUIRED UNDER ORDINARY CONDITIONS OF DOCKING UNDER THE BOW FORWARD OF FR 12 AND UNDER THE STERN AFT OF FR 86.
   (3) IN THE EVENT THAT PIER BLOCK ARRANGEMENT IS NOT PROVIDED KEEL BLOCKS SHALL BE SPACED 4'–0" CENTER TO CENTER BETWEEN FR 12 AND FR 86, CRIB BLOCKS UNDER BOW AND SKEG FOR ABOUT 12'–0".
   (C) SIDE BLOCKS (SHOWN ON THIS PLAN IN ALL THREE DOCKING POSITIONS) ARE INDICATED FOR 8'–0" SPACED BEARERS (P) AND 12'–0" SPACED BEARERS (S).
   (1) SIDE BLOCKS SHALL BE LOCATED (P) AND (S) UNDER LONGITUDINAL BULKHEAD AT 17'–6" OFF CL AND LONGITUDINAL GIRDERS AT 13'–0" AND 14'–8" OFF CENTERLINE AS INDICATED ON TABLE OF OFFSETS IN ACCORDANCE WITH BEARER SPACING OF DOCK, EXCEPT AS NOTED.
   (2) SOFT WOOD CAPS ARE REQUIRED.
   (3) DIRECTION OF BEVEL ON BLOCKS IN 18 INCHES IS DOWN (–) OR UP (+) FROM THE HEIGHT GIVEN AT THE AFTER SIDE OF THE BLOCK. IN THE TABLES OF OFFSETS, DIM 'C'.
   (4) THE TABLE OF OFFSETS WILL PERMIT DOCKING FROM PLAN IN DOCKS WHICH HAVE 8'–0", 12'–0" OR 16'–0" BEARER SPACING. BLOCK SPACINGS OF 12'–0" OR 16'–0" ONLY ARE REQUIRED. WHEN DOCKING VESSELS OFF CENTER IN DOCKS WHICH HAVE 8'–0" BEARER SPACING IT IS PERMISSIBLE TO STAGGER THE BLOCKS USING ODD ON ONE SIDE AND EVEN ON THE OTHER.
   (5) SIDE BLOCKS ARE NUMBERED FROM AFT, FORWARD WITH AFTER BLOCK AS NO. 1.
   (6) UNIVERSAL CAP SIDE BLOCKS MAY BE USED IN LIEU OF FITTED BLOCKS.

7. THIS DWG SUPERSEDES 085–6233631 FOR T–AGOS–15 (EX–TITAN).

CRITICAL DIMENSIONS

LENGTH OVERALL	224'–6"
LENGTH BETWEEN PERPENDICULARS	194'–0"
BREADTH (EXTREME, HULL AT FR 14)	44'–11"
FRAME SPACING	24"
FIRST SIDE BLOCK IS:	FROM STERN REF POINT
NO. 1 DOCKING POSITION	55'–9"
NO. 2 DOCKING POSITION	57'–9"
NO. 3 DOCKING POSITION	53'–9"
END OF SKEG	24'–11"
HEIGHT OF MAST ABV 15'–1" WL	72'–2"
DRAFT, FULL LOAD	15'–1"

REVISIONS

REV	ZONE	DESCRIPTION	CDIM	HALTER	
A	6A, 6C	1. ADDED KEEL BLOCK IWO FR 10 AND FR 88			01/26/10
	6A, 6C	2. OMITTED BLOCKS FROM 135' TO 150' FWD OF SRP IWO TRANSDUCER POD			
	6A	3. REVISED DOCKING POSITION DIMENSIONS			
	SHT 3	4. REVISED OFFSETS FOR BLOCKS 5, 7 AND 8 IN POSITION 3 OF 12'–0" SPACING			
	SHT 3	5. REVISED OFFSET FOR BLOCK 5 IN POSITION 1 OF 12'–0" SPACING			
	SHT 3	6. REVISED OFFSETS FOR BLOCK 11 IN POSITIONS 1, 2 AND 3 OF 8'–0" SPACING			
	SHT 3	7. REVISED BEARING ON BLOCKS AREAS AND PRESSURES			
	12 C	8. CHANGED BLOCK IWO TRANSDUCER TO 30 KEEL PAD			

REFERENCES

NO	TITLE	DRAWING NUMBER
24	TRANSDUCER & FAIRING INSTALL DETAILS	GU–461–001
23	DOCKING PLAN	085–6233631
22	MAIN PROP SHAFT ARRGT	243–6233870
21	MODULE NO. 13 STRL ASSY	110–6233561
20	MODULE NO. 8 STRL ASSY	110–6233559
19	MODULE NO. 7 STRL ASSY	110–6233558
18	MODULE NO. 6 STRL ASSY	110–6233555
17	MODULE NO. 4 STRL ASSY	110–6233554
16	MODULE NO. 3 STRL ASSY	110–6233549
15	MODULE NO. 1 STRL ASSY	101–6233547
14	SEWAGE TREATMENT SYSTEM ARRGT	528–6233872
13	MODULE NO. 1 PIPING INSTL	801–6233849
12	MODULE NO. 4 P PIPING INSTL	801–6233852
11	MODULE NO. 4 S PIPING INSTL	801–6233964
10	SHIP'S BERTHING PLAN	085–6233630
9	MOLDED OFFSETS	085–6233634
8	CURVES OF FORM	085–6233539
7	MOLDED LINES	085–6233633
6	NAVIGATION SYSTEM ELEM & ISO WRG DIAGRAM	423–6233692
5	SHELL EXPANSION	101–6233543
4	MODULE NO.5 STRL ASSY	110–6233550
3	MODULE NO.2 STRL ASSY	110–6233551
2	DOPPLER SPEED LOG ELEM & ISO WRG DIAG	426–6233661
1	SEACHESTS	163–6233563

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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ESSEX, CT 06426
USA
TEL: (860) 767–9061
FAX: (860) 767–1263

CONTRACT NO.	50ABNA000032
TAR NO.	SSI–035(04)
DWN	02–18–04 LAG
CHK	04–16–04 JEK
APR'D	06–04–04 JAH
NOAA APPROVAL	

10 9 8 7 6 5 4 3 2 1 A A A
SHEET NO.
REVISION STATUS OF SHEETS

NOAA SHIP GORDON GUNTER

DOCKING PLAN

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
H	0YLJ5	GU–085–01	A
SCALE: NONE		CAD FILENAME GU–085–01.dwg	SHT 1 OF 3

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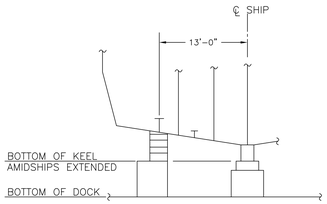
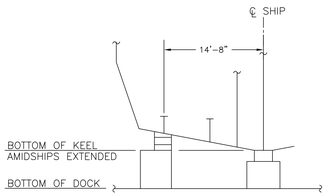


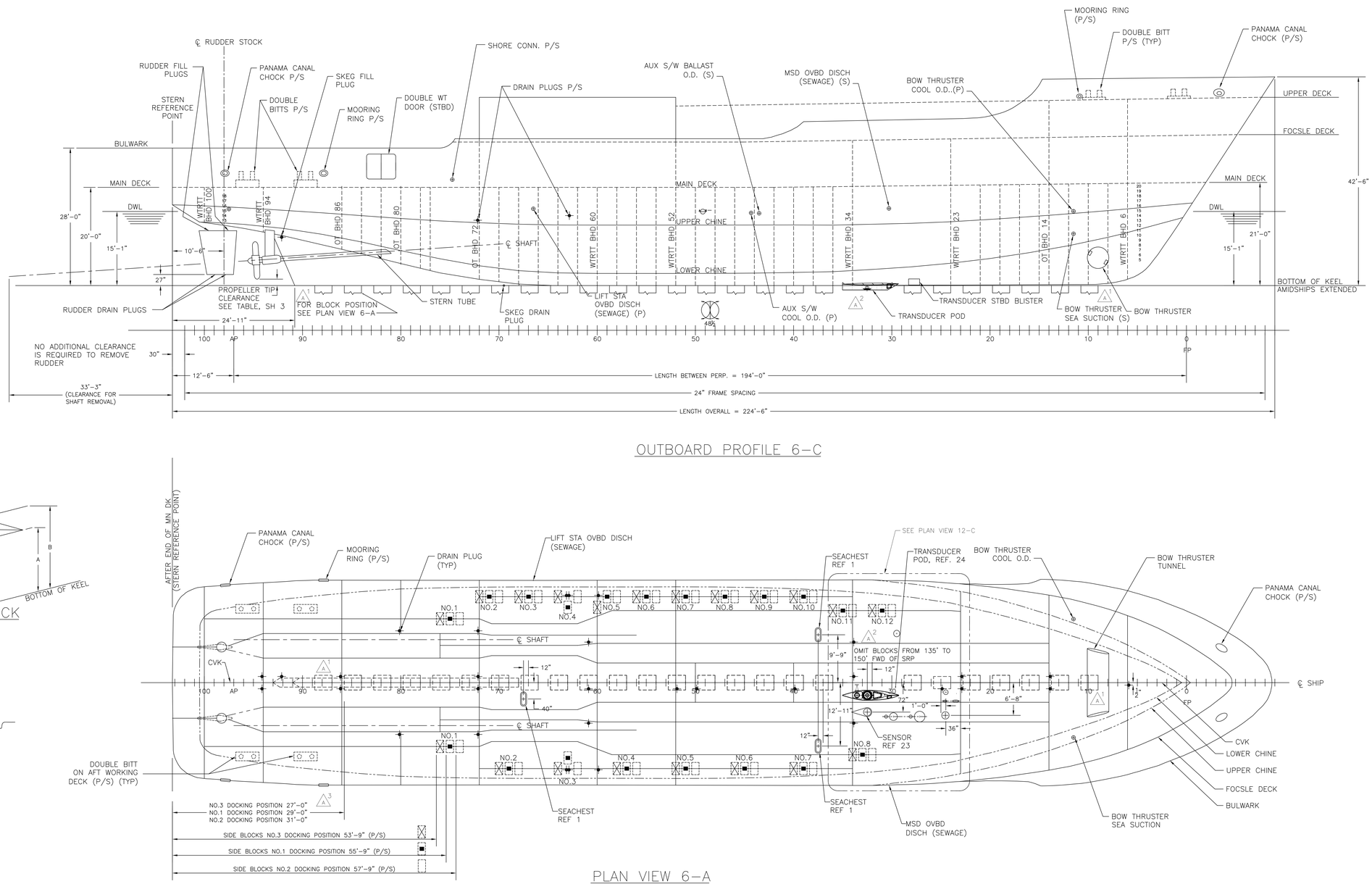
SECTION 8-D

FR 75 LKG AFT

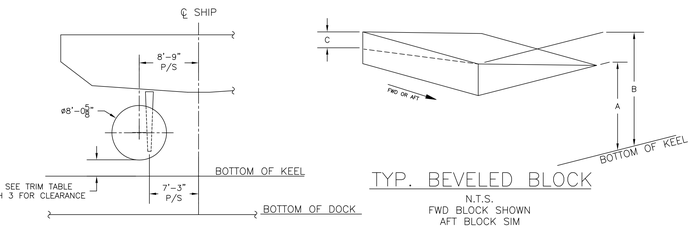


SECTION 8-C

FR 32 LKG AFT



OUTBOARD PROFILE 6-C

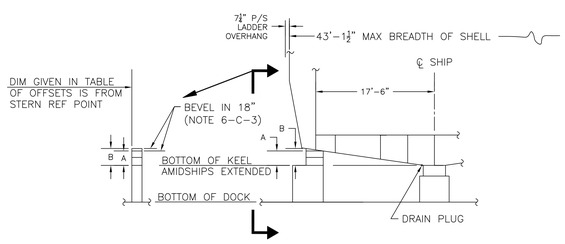


SECTION 8-B

FR 95 LKG AFT

TYP. BEVELED BLOCK

N.T.S.
FWD BLOCK SHOWN
AFT BLOCK SIM



SECTION 8-A

FR 50 LKG AFT
TYP DETAILS OF DOCKING BLOCKS LKG AFT

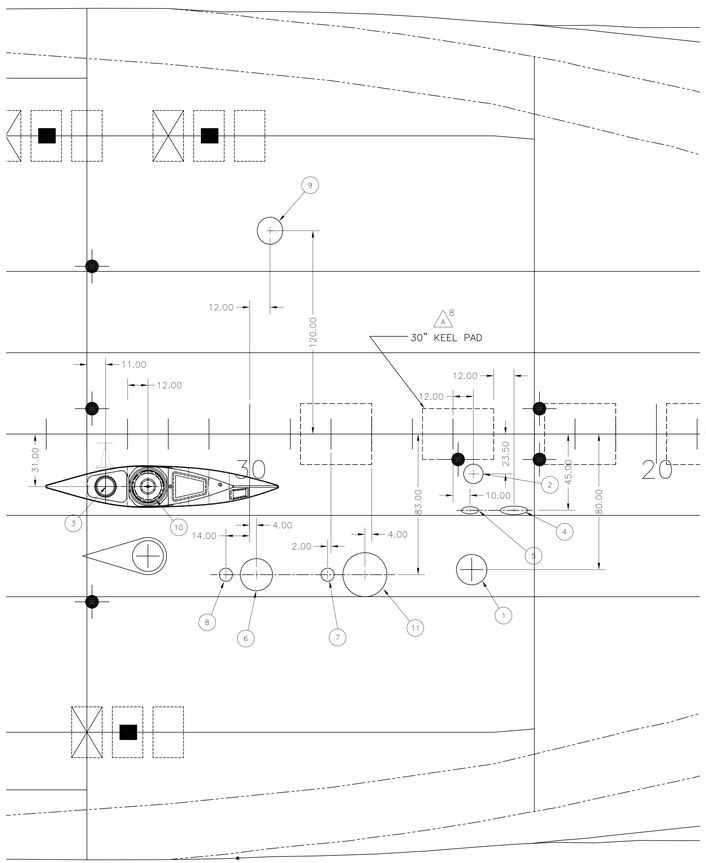
PLAN VIEW 6-A

INTERVALS OF SIDE BLOCKING SHOWN 8'-0" ON PORT SIDE, 12'-0" ON STBD SIDE
KEEL BLOCKS IN POSITIONS NO. 2 & 3 NOT SHOWN FOR CLARITY
VIEW TAKEN 1" ABOVE SHELL PLATING.
FLOORS OMITTED FOR CLARITY

1/8"=1'-0"

DWG TITLE			
DOCKING PLAN			
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
H	0YLJ5	GU-085-01	A
SCALE:1/8"=1'-0"			SHT 2 OF 3

s:\active\projnumb\noaa-099-07\2004\099-07-033\GU-085-01.dwg



PLAN VIEW 12-C

SCALE: $\frac{3}{8}$" = 1'-0"

LIST OF MATERIALS (THESE ITEM NUMBERS CORRESPOND WITH PLAN VIEW ONLY)

ITEM NO.	SERVICE	MODEL NO.	SIZE	PORT/ STBD	FWD	AFT	FRAME	DIST. ABOVE BASELINE	DISTANCE OFF ℄ SHIP
1	SPERRY DSL 300 KHZ	8-6A021104-1	10" DIA.	S	11"	--	25	7 3/4"	80"
2	RAYTHEON 24 KHZ	7426	11½" DIA.	S	12"	--	25	0"	23 1/2"
3	EMPTY 10" WELL	--	9½" DIA.	S	11"	--	34	-10 1/4"	31"
4	SIMRAD 50-10 x 17	193600	5" x 16"	S	12"	--	24	4"	45"
5	SIMRAD 200-7-F	KSV-065414	4.3"x 9.9"	S	10"	--	25	4"	45"
6	SIMRAD ES388-7	KSV-074531	19" DIA.	S	4"	--	30	1 1/4"	83"
7	SIMRAD ES120-7	KSV-088277	7¾" DIA.	S	--	2"	28	1 1/4"	83"
8	SIMRAD ES200-7C	KSV-203003	7¾" DIA.	S	--	14"	30	1 1/4"	83"
9	SIMRAD ITI	KSV-049983	15" x 16"	P	12"	--	30	1/2"	120"
10	RDI ADCP 75 KHZ	--	18" DIA.	S	12"	--	33	-10 3/4"	31"
11	SIMRAD ES18	KSV-088694	26" DIA.	S	--	4"	27	1 1/4"	83"

LIST OF DRAIN PLUGS IN SHELL ⊕

NO.	SIDE	FWD OR AFT	FRAME	FWD OF AFT REF POINT	DIST OFF ℄ SHIP
1	S	3" FWD	6	194'-9"	6"
2	P/S		14	178'-9"	15"
3	P/S		23	160'-9"	15"
4	S		25	156'-9"	15"
5	P/S		34	138'-9"	15"
6	P/S		34	138'-9"	8'-3"
7	S		40	126'-9"	15"
8	S		50	106'-9"	15"
9	S		52	102'-9"	15"
10	S		60	86'-9"	15"
11	P/S		60	86'-9"	8'-3"
12	P/S		60	86'-9"	17'-9"
13	P/S		63	80'-9"	17'-9"
14	P/S		63	80'-9"	14'-2" ABL
15	P/S	3" AFT	63	80'-3"	17'-9"
16	P/S		72	62'-3"	15"
17	P/S		72	62'-3"	10'-6 5/8"
18	P/S		72	62'-3"	13'-2" ABL
19	P/S		80	46'-3"	10'-6 5/8"
20	P/S		86	34'-3"	15"
21	P		92	22'-3"	15"
22	P/S		94	18'-3"	15"

TABLE OF OFFSETS FOR SIDE BLOCKS ☒
INTERVALS GIVEN IN INCREMENTS OF 8'-0"

NO. 3 DOCKING POSITION-AFTER SIDE OF NO.1 BLOCK 53'-9" FROM REF PT

SIDE	BLK NO.	FWD OF REF PT	POINT A HB	POINT A HT	POINT B HB	POINT B HT	BEVEL IN 18" FOR C
P/S	1	53-9-0	11-9-0	4-5-7	14-3-0	4-10-2	-3⅝"
	2	61-9-0	16-3-0	3-8-4	18-9-0	4-0-11	-2⅛"
	3	69-9-0		2-7-14		3-0-5	-1⅜16"
	4	77-9-0		2-2-0		2-6-5	-⅜"
	5	85-9-0	14-9-0	1-10-13	16-3-0	2-2-12	--
	6	93-9-0	16-3-0	2-0-12	18-9-0	2-4-12	--
	7	101-9-0					--
	8	109-9-0		2-0-13		2-4-13	--
	9	117-9-0	16-0-0	2-1-1	18-6-0	2-5-1	+5⁄16"
	10	125-9-0	15-9-0	2-2-1	18-3-0	2-6-8	+9⁄16"
	11	133-9-0	13-5-0	2-0-0	15-11-0	2-5-1	+⅞"
	12	141-9-0	13-5-0	2-4-2	15-11-0	2-9-14	+1 3⁄16"

TABLE OF OFFSETS FOR SIDE BLOCKS ☐
INTERVALS GIVEN IN INCREMENTS OF 8'-0"

NO. 2 DOCKING POSITION-AFTER SIDE OF NO.1 BLOCK 57'-9" FROM REF PT

SIDE	BLK NO.	FWD OF REF PT	POINT A HB	POINT A HT	POINT B HB	POINT B HT	BEVEL IN 18" FOR C
P/S	1	57-9-0	11-9-0	3-7-15	14-3-0	4-0-12	-3 11⁄16"
	2	65-9-0	16-3-0	3-1-4	18-9-0	3-5-12	-2¾"
	3	73-9-0		2-4-3		2-8-10	-1"
	4	81-9-0		2-1-2		2-5-1	-3⁄16"
	5	89-9-0		2-0-13		2-4-13	--
	6	97-9-0		2-0-12		2-4-12	--
	7	105-9-0					+⅛"
	8	113-9-0		2-1-1		2-5-1	+5⁄16"
	9	121-9-0	16-0-0	2-1-11	18-6-0	2-5-14	+⅜"
	10	129-9-0	15-9-0	2-3-4	18-3-0	2-8-3	+15⁄16"
	11	137-9-0	13-5-0	2-2-0	15-11-0	2-7-7	+1 1⁄16"
	12	145-9-0	13-5-0	2-6-14	15-11-0	3-1-2	A=+1⅛" B=+1 9⁄16"

TABLE OF OFFSETS FOR SIDE BLOCKS ▣
INTERVALS GIVEN IN INCREMENTS OF 8'-0"

NO. 1 DOCKING POSITION-AFTER SIDE OF NO.1 BLOCK 55'-9" FROM REF PT

SIDE	BLK NO.	FWD OF REF PT	POINT A HB	POINT A HT	POINT B HB	POINT B HT	BEVEL IN 18" FOR C
P/S	1	55-9-0	11-9-0	4-0-9	14-3-0	4-5-4	-3½"
	2	63-9-0	16-3-0	3-4-9	18-9-0	3-8-15	-2 15⁄16"
	3	71-9-0		2-5-13		2-10-5	-1 3⁄16"
	4	79-9-0	13-9-0	1-9-6	16-3-0	2-1-9	-7⁄16"
	5	87-9-0	16-3-0	2-0-13	18-9-0	2-4-13	--
	6	95-9-0		2-0-12		2-4-12	--
	7	103-9-0				2-4-12	+1⁄16"
	8	111-9-0		2-0-14		2-4-15	+¼"
	9	119-9-0	16-0-0	2-1-6	18-6-0	2-5-9	+1 1⁄16"
	10	127-9-0	15-9-0	2-2-8	18-3-0	2-7-4	+9⁄16"
	11	135-9-0	13-5-0	2-0-15	15-11-0	2-6-3	+⅞"
	12	143-9-0	13-5-0	2-5-8	15-11-0	2-11-4	A=+1" B=+1 1⁄16"

NOTE: DOCKS WHICH HAVE BEARERS FOR SIDE BLOCKS SPACED 16'-0" APART SHALL USE ODD NUMBERED BLOCKS ONLY.

TABLE OF OFFSETS FOR SIDE BLOCKS ☒
INTERVALS GIVEN IN INCREMENTS OF 12'-0"

NO. 3 DOCKING POSITION-AFTER SIDE OF NO.1 BLOCK 53'-9" FROM REF PT

SIDE	BLK NO.	FWD OF REF PT	POINT A HB	POINT A HT	POINT B HB	POINT B HT	BEVEL IN 18" FOR C
P/S	1	53-9-0	11-9-0	4-5-7	14-3-0	4-10-15	-3½"
	2	65-9-0	16-3-0	3-1-4	18-9-0	3-5-12	-2¼"
	3	77-9-0		2-2-0		2-6-5	-⅜"
	4	89-9-0		2-0-13		2-4-13	--
	5	101-9-0		2-0-12		2-4-12	+⅛"
	6	113-9-0	16-0-0	2-0-11	18-6-0	2-4-11	+⅜"
	7	125-9-0	15-9-0	2-2-1	18-3-0	2-6-9	+1 1⁄16"
	8	137-9-0	13-5-0	2-2-0	15-11-0	2-7-7	+1"

TABLE OF OFFSETS FOR SIDE BLOCKS ☐
INTERVALS GIVEN IN INCREMENTS OF 12'-0"

NO. 2 DOCKING POSITION-AFTER SIDE OF NO.1 BLOCK 57'-9" FROM REF PT

SIDE	BLK NO.	FWD OF REF PT	POINT A HB	POINT A HT	POINT B HB	POINT B HT	BEVEL IN 18" FOR C
P/S	1	57-9-0	11-9-0	3-7-15	14-3-0	4-0-12	-3¾"
	2	69-9-0	16-3-0	2-7-14	18-9-0	3-0-5	-1 9⁄16"
	3	81-9-0		2-1-2		2-5-1	-3⁄16"
	4	93-9-0		2-0-12		2-4-12	--
	5	105-9-0					--
	6	117-9-0	16-0-0	2-1-1	18-6-0	2-5-2	+⅜"
	7	129-9-0	15-9-0	2-3-4	18-3-0	2-8-4	+1 5⁄16"
	8	141-9-0	13-5-0	2-4-2	15-11-0	2-9-14	+1 3⁄16"

TABLE OF OFFSETS FOR SIDE BLOCKS ▣
INTERVALS GIVEN IN INCREMENTS OF 12'-0"

NO. 1 DOCKING POSITION-AFTER SIDE OF NO.1 BLOCK 55'-9" FROM REF PT

SIDE	BLK NO.	FWD OF REF PT	POINT A HB	POINT A HT	POINT B HB	POINT B HT	BEVEL IN 18" FOR C
P/S	1	55-9-0	11-9-0	4-0-10	14-3-0	4-5-4	-3⅝"
	2	67-9-0	16-3-0	2-10-6	18-9-0	3-2-14	-1 15⁄16"
	3	79-9-0	13-9-0	1-9-6	16-3-0	2-1-9	-7⁄16"
	4	91-9-0	16-3-0	2-0-12	18-9-0	2-4-13	--
	5	103-9-0		2-0-12		2-4-12	--
	6	115-9-0	16-0-0	2-0-13	18-6-0	2-4-14	+¼"
	7	127-9-0	15-9-0	2-2-8	18-3-0	2-7-4	+¾"
	8	139-9-0	13-5-0	2-3-0	15-11-0	2-8-9	+1"

PROPELLER TIP CLEARANCE TABLE

TRIM (INCHES)	BY	PROPELLER CLEARANCE INCHES FROM LOW POINT
6"	BOW	20.875
0"	EVEN KEEL	15.575
6"	STERN	15.191
12"	STERN	14.807
18"	STERN	14.423
24"	STERN	14.039

BEARING ON BLOCKS

SUPPORT	BEARING ON SHELL PLATING 8'-0" SPACED BEARERS	12'-0" SPACED BEARERS	16'-0" SPACED BEARERS
SIDE BLOCKS 18"X30" (TOTAL P/S)	12,960 SQ IN. 90 SQ FT.	8,640 SQ IN. 60 SQ FT.	6,480 SQ IN. 45 SQ FT.
* KEEL BLOCKS 36"X42" (25)	24,948 SQ IN. 173.25 SQ FT.	24,948 SQ IN. 173.25 SQ FT.	24,948 SQ IN. 173.25 SQ FT.
TOTAL BEARING	37,908 SQ IN. 263.25 SQ FT.	33,588 SQ IN. 233.25 SQ FT.	31,428 SQ IN. 218.25 SQ FT.
BEARING PER SQ IN. BLOCKING BEARING PER SQ FT. BLOCKING	134.84 LB 8.67 TONS	152.19 LB 9.79 TONS	162.65 LB 10.46 TONS

*NOTE: KEEL BLOCK BEARING AREA BASED ON A 24 INCH WIDTH OF SHOE.
FULL LOAD DISPLACEMENT 2282.4 L TONS OR 5,111,680 LBS.

TABLE OF DISPLACEMENT AND OTHER PROPERTIES FOR DOCKING

MEAN DRAFT (FT)	DISPLACEMENT (TONS) (SEA WATER)	NO CORRECTIONS FOR TRIM: APPROX. MOMENT TO CHANGE TRIM ONE INCH (FOOT TONS)	C.B. FWD OF STERN REF POINT (FT)	TONS PER INCH IMMERSION (SEA WATER)	LONG. CTR OF FLOATATION (FT): AFT OF MIDSHIPS	LONG. CTR OF FLOATATION (FT): FWD OF STERN REF PT
11.00	1436.2	183.5	110.38	15.92	6.52	102.98
11.50	1531.0	192.0	109.95	16.34	7.33	102.17
12.00	1629.0	201.6	109.48	16.55	8.21	101.29
12.50	1729.4	220.2	108.92	17.10	10.22	99.28
13.00	1833.4	235.2	108.36	17.51	11.77	97.73
13.50	1940.0	243.2	107.76	17.73	12.46	97.04
14.00	2046.5	251.2	107.19	17.95	13.00	96.50
14.50	2154.9	259.3	106.64	18.14	13.50	96.00
15.00	2264.4	267.0	106.11	18.34	14.10	95.40
15.25	2319.7	270.9	105.85	18.43	14.32	95.18

LIST OF ALL OPENINGS IN SHELL BELOW DWL

ITEM NO.	SERVICE	SIZE OF HOLE	OUTER PL PROTECTOR RING	SIDE	FWD AFT	FRAME	FWD OF AFT REF POINT	DISTANCE OFF ℄ SHIP	HEIGHT ABV BOTTOM OF KEEL	REFERENCE
1	SEA CHEST	13¾"x33¾"	--	P	12" AFT	37	131'-6"	9'-9"	1'-4 7⁄8"	REF 1
2	SEA CHEST	13¾"x33¾"	--	S	12" AFT	37	131'-6"	12'-11"	1'-9 1⁄8"	REF 1
3	SEA CHEST	13¾"x33¾"	--	S	12" AFT	67	71'-6"	40"	7¾"	REF 1
4	BOW THRUSTER	52½" DIA.	--	P/S	--	9	188'-6"	6'-5 1⁄16"	68"	REF 5
5	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--
7	AUX SW/BALLAST O.D.	6" DIA.	--	S	11 11⁄16" AFT	44	117'-6 5⁄16"	21'-6"	14'-8 3⁄16"	REF 11
8	AUX SW/COOL O.D.	8" DIA.	--	P	7⅞" AFT	44	119'-2¼"	21'-6"	14'-9 3⁄16"	REF 12
9	BOW THRUST COOL O.D.	1¼" DIA.	--	P	12" FWD	12	181'-6"	12'-11¾"	15'-1 5⁄16"	REF 13
10	BOW THRUST SEA SUCTION	1¼" DIA.	--	S	12" FWD	12	181'-6"	11'-2"	10'-6 5⁄16"	REF 13

LIST OF SEWAGE DISCHARGES

ITEM NO.	SIZE OF CONN.	SIDE	FWD AFT	FR	DISTANCE OFF ℄ SHIP	HEIGHT ABOVE BOTTOM OF KEEL	REFERENCE	SERVICE
1	2"	P	6" FWD	75	16'-0"	22'-9 5⁄16"	REF 14	SHORE CONN
2	2"	S	6" FWD	75	16'-0"	22'-9 5⁄16"	REF 14	SHORE CONN
3	4"	P	12" AFT	66	21'-1 3⁄16"	15'-7 9⁄16"	REF 14	LIFT STA OVBD DISCH
4	5"	S	7" AFT	30	21'-6⅝"	15'-8 5⁄16"	REF 14	MSD OVBD DISCH

3/4" = 1'-0"

DWG TITLE: DOCKING PLAN

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
H	0YLJ5	GU-085-01	A

SCALE: AS NOTED — SHT 3 OF 3

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